Appendix A

Stakeholders and Advisory Committee Members

List of Stakeholders and Advisory Committee Members

Stakeholder	Organization
David G. Jefle	Corridor business owner
Richard Ochsnol	Corridor business owner
Glen Bumgardner	Corridor resident
Wally Sept	Corridor resident
Elloie Jeter	Florence Civic Club
John C. McGee	Florence-Carlton School District
Gordon Reese	Friends of the Bitterroot Trail
Jean Belangie-Nye	Lolo Community Council
Phil Smith	Missoula City Bike & Pedestrian Program
Greg Robertson	Missoula County
Barbara Evans	Missoula County
Bob Giordono	MIST
Charlie Wright	Montana Department of Commerce
Shame Grimes	Montana Highway Patrol
Mike Kress	MPO – Office of Planning and Grants
Cheryl Russell	University of Montana

Advisory Committee Member	Organization
Bruce Bender, Chief Admin Officer	City of Missoula
Ed Childers, City Council	City of Missoula
Elloie Jeter	Florence Civic Club
David Gjefle	Corridor business owner
Jean Belangie-Nye	Lolo Community Council
Phil Smith, Bike/Pedestrian Coordinator	Missoula City Bike & Pedestrian Program
Greg Robertson, Public Works Dir.	Missoula County
Barbara Evans, CC (Beginning of Study to August 2007)	Missoula County
Larry Anderson, CC (August 2007 to present)	Missoula County
Sheriff Mike McMeekin	Missoula County Sheriff's Department
Capt. Tom Hamilton	Montana Highway Patrol
Ray Kuntz	Montana Motor Carriers Association
Steve Werner	Montana Rail Link
Steve Earle, General Mgr.	Mountain Line
Mike Kress, Sr. Transportation Planner	MPO – Office of Planning and Grants
Lyn Hellegaard, Manager	MR TMA
Karen Hughes, Interim Planning Dir. (Beginning of Study to July 2008)	Ravalli County
Renee Lemon , Interim Planning Dir. (July 2008 to present)	Ravalli County
Greg Chilcott, CC	Ravalli County
Undersheriff Kevin McConnell	Ravalli County Sheriff's Office
Amber Blake (Beginning of Study to August 2007)	Missoula Office of Planning and Grants
Mirtha Becerra (August 2007 to present)	Missoula Office of Planning and Grants

Appendix B

Newsletters





Planning Steps & Schedule

Step #1 Identify issues Stakeholder interviews Meet with elected officials	Oct / Dec 2005
Step #2 Assess existing transportation / environmental / land use conditions	Nov 2005 thru Jan 2006
Public Open House #1 Project kickoff—Identify issues, discuss goals	Feb 2006
Step #3 Analyze future travel demand and performance	Jan 2006
Step #4 Confirm purpose & need / goals	Feb 2006
Step #5 Develop preliminary improvement options	Mar / Apr 2006
Public Open House #2 Confirm possible improvement options	Jun 2006
Step #6 Analyze improvement options	Jun / Jul 2006
Step #7 Identify feasible improvement projects and policies	Jul / Aug 2006
Public Open House #3 Present draft feasible improvements	Late Summer 2006
Step #8 Develop draft recommendations	Sept 2006 thru Jan 2007
Public Open House #4 Present draft corridor plan	Fall 2006
Step #9 Prepare final corridor plan	Spring 2007

For more information

Sheila Ludlow, MDT Project Manager (406) 444-9193 / sludlow@mt.gov

Don Galligan, HDR Project Manager (406) 541-8132 / Donald.Galligan@hdrinc.com

Mike Pepper, KMP Planning - Public Inv. (208) 734-6208 / kmpplanning@cableone.net

Shane Stack, MDT Engineering Services Supv. Missoula District (406) 523-5830 / sstack@mt.gov

> MDT Recorded Comment Line (800) 714-7296

> > Project Web Site:

www.mdt.mt.gov/pubinvolve/us93corridor/

Project Description and Status

The US 93 Corridor Plan (the Plan) is being conducted by the Montana Department of Transportation to identify the most needed improvements to the US 93 transportation corridor between Missoula and Florence that will meet the corridor's operational requirements and user needs for the next 20 years, given financial constraints. The planning process considers the needs of local residents in Missoula, Lolo and Florence along with other residents in the region and the traveling public.

To date, the planning process has included a review of existing traffic and corridor use, land use and environmental conditions. A series of stakeholder interviews, the first round of public open house events, the first advisory committee meeting, agency and a stakeholder workshops have also been completed. Based on this combined input and information, a list of corridor issues (see back of newsletter) have been identified and the draft corridor goals (see list below) have been established.

Using the public issues, existing conditions, corridor needs and goals as a guide, the consultant team is now developing a list of possible improvement options. These draft possible improvements will be presented at the next public open houses in late May or early June. Watch for the next newsletter and local media for dates, locations and times for these events.

Draft Corridor Goals

Safety: Provide and maintain a safe transportation corridor for all modes of travel

Environment: Minimize through "best practices", the negative corridor impacts to the adjacent environment, communities and wildlife

<u>Financial</u>: Ensure the wise use of financial resources, through financially feasible solutions

<u>Multi-modal:</u> Optimize the use of alternative transportation modes throughout the corridor

<u>Transportation Corridor Design:</u> Implement safe "context-sensitive" design solutions that balance corridor functional needs with the community and environmental character of the corridor

Congestion: Maintain acceptable levels of safe corridor operation

Access: Manage corridor access within the law





HDR Engineering, Inc. River Quarry at Park Center 412 E. Park Center, Suite 100 Boise, ID 83706-6659

HDR ONE COMPANY | Many Solutions

Some corridor issues we've heard...

SAFETY

- · Lack of adequate left turn protection
- Unsafe / illegal parking
- · Vehicle / pedestrian conflicts
- Conflicting and improper center lane movements
- Traffic speeds seem too high
- · No, or limited US 93 emergency access when blocked

MULTI-MODAL

- Desire to reduce motor vehicle travel demand
- Desire for separated pathway between Lolo and Missoula
- Desire for more alternative transportation modes
- · Lack of sufficient multi-modal connections in Missoula
- · Van pool schedules do not meet user needs
- Insufficient number / poorly lit Park and Ride lots
- Desire for passenger rail service

ROADWAY DESIGN

- Drainage / flooding / ice across highway at MP 86.2
- Insufficient shoulder / bike lane width
- Dip on Blue Mtn. Rd. at approach to US 93
- Lack of separation between north and southbound lanes
- · Sight distance limitation at Trader Bros. intersection
- Insufficient shoulder width for right turn movements
- · Bottleneck between Lolo and Missoula
- Difficulty of visibility of pavement markings during rain
- Lack of real-time roadway information for travelers
- Right turn radius is too tight for southbound truck turns onto Mormon Crk Rd.
- Turn bays on and off US 93 at East Side Highway are too short

CAPACITY / LEVEL OF SERVICE

- Backup on US 93 between Lolo and Missoula when closed due to emergencies
- Lack of traffic breaks during peak traffic
- Congestion at Blue Mountain Rd. westbound from US 93
- Traffic stacking is increasing along corridor
- Increased conflicts with commercial traffic
- Insufficient capacity to meet traffic volume needs and maintain acceptable level of service
- Congestion during peak traffic hours

ACCESS

- Too many / close access points
- Conflicting turning movements at Lolo School
- Residential development creates increased demand for access to US 93
- Long delays accessing US 93 during peak times
- Insufficient coordination with land use planning process
- Desire to maintain access control

ENVIRONMENTAL

- Corridor noise through Lolo and Florence
- Deer crossing and congestion near Buckhouse Bridge
- Reduced air quality due to traffic volumes and congestion
- Risks due to use of US 93 as hazardous material route
- Poor aesthetics at southern gateway to Missoula
- Aging population needs for emergency services and mobility
- · US 93 impacts to wetlands; bisect and drainage
- Air pollution and impacts to bike and ped use from roadway dirt and winter time sanding
- · Excessive noise from rumble strips





Planning Steps & Schedule Step #1 Identify issues Oct / Dec Stakeholder interviews 2005 Meet with elected officials Nov 2005 thru Step #2 Assess existing transportation / environmental / land use conditions Ian 2006 Public Open House #1 Feb 2006 Project kickoff-Identify issues, discuss Step #3 Analyze future travel demand Jan 2006 Step #4 Confirm purpose & need / goals Mar / Apr Mar / Apr Step #5 Develop preliminary improvement options 2006 Public Open House #2 June 2006 Confirm possible improvement options Jun / Jul 2006 Step #6 Analyze improvement options Step #7 Identify feasible improvement Jul / Aug 2006 projects and policies Public Open House #3 Present draft feasible improvements Summer 2006 Sept 2006 thru Step #8 Develop draft recommendations Jan 2007 **Public Open House #4** Fall / Winter 2006 Step #9 Prepare final corridor plan Winter/Spring

For more information

Sheila Ludlow, MDT Project Manager (406) 444-9193 / sludlow@mt.gov

Don Galligan, HDR Project Manager (406) 541-8132 / Donald.Galligan@hdrinc.com

Mike Pepper, KMP Planning - Public Inv. (208) 734-6208 / kmpplanning@cableone.net

Shane Stack, MDT Engineering Services Supv.

Missoula District (406) 523-5830 / sstack@mt.gov

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Project Web Site:

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Project Description and Status

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To date, the planning process has included a review of existing traffic and corridor use, land use and environmental conditions, future traffic projections and an analysis of socio-economic data and trends to better understand corridor users and potential activities. Corridor goals, which were outlined in Newsletter #1, have been established based on public input and the operational needs of the corridor. These goals, together with the corridor Purpose and Need Statement have been used to guide the identification of possible improvement options, which are shown on the inside of this newsletter. The possible improvement options, together with additional corridor background information will be discussed at the *upcoming public open house events in June* (see details below). The public is encouraged to attend one of the workshops to review the possible alternatives and provide comments. For those who cannot attend, a comment form is included inside this newsletter.

You're Invited to Public Open House #2

"Possible Improvement Options"

Monday, June 12, 2006 - Missoula - 5:00 to 8:00 p.m.* Quality Inn Conference Center 3803 Brooks St.

Tuesday, June 13, 2006 - Florence - 5:00 to 8:00 p.m.*
Florence-Carlton School
5602 Old US Highway 93

*Both open house events are open house format. Area residents and other interested individuals are invited to drop in anytime between 5:00 p.m. and 8:00 p.m. MDT and project consultants will be on hand to discuss possible improvement options, corridor goals and other project information. Note that all information presented at the open houses, along with comment forms, is available on the project web site (see address at left).

007 sopries of this public document were published at an estimated cost distribution. (2.2.7 per copy, for a total cost of \$6.2.3 which includes patients and distribution.



HDR Engineering, Inc.
River Quarry at Park Center
412 E. Park Center, Suite 100
Boise, ID 83706-6659

HDR ONE COMPANY | Many Solutions



You're Invited to

Public Open House #2

To discuss
Possible Improvement Options

Monday, June 12 in Missoula Tuesday, June 13 in Florence

See inside for details

Draft Corridor Goals

Based on public input and used to guide development of improvement options

<u>Safety:</u> Provide and maintain a safe transportation corridor for all modes of travel

Environment: Minimize through "best practices", the negative corridor impacts to the adjacent environment, communities and wildlife

Financial: Ensure the wise use of financial resources, through financially feasible solutions

<u>Multi-modal</u>: Optimize the use of alternative transportation modes throughout the corridor

<u>Transportation Corridor Design:</u> Implement safe "contextsensitive" design solutions that balance corridor functional needs with the community and environmental character of the corridor

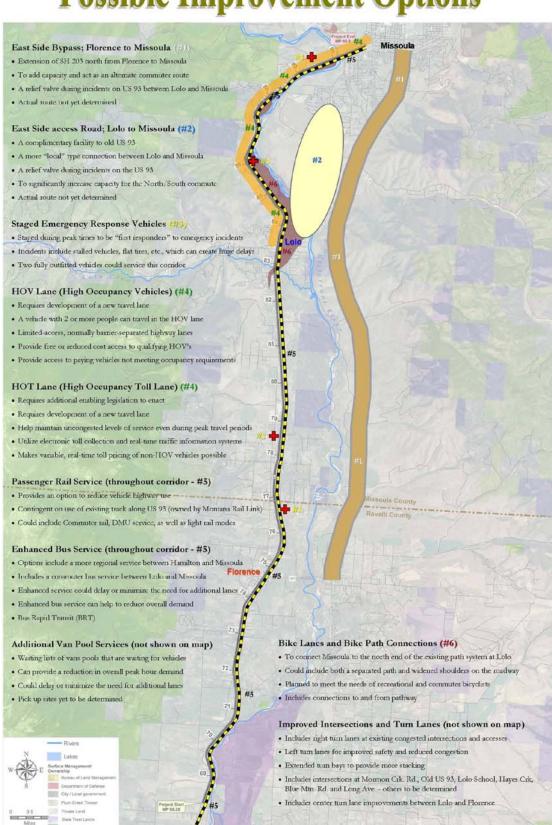
Congestion: Maintain acceptable levels of safe corridor operation

Access: Manage corridor access within the law to balance user access demands with corridor operational needs

"MDT attempts to provide accommodations for any known disability that may interfere with a person participating n any service, program or activity of the Department. Alternative accessible formats of this information will be provided upon request. For further information call (406) 541-8132 or TTY (406) 444-7696"



US 93 Corridor: Missoula to Florence Possible Improvement Options





US 93 Public Meeting August 15 & 16, 2007

AGENDA

Wednesday, August 15th Lolo School Thursday, August 16th Missoula Quality Inn

Presentation will begin at 6:30 p.m.

Primary purpose of the meeting:

To confirm draft corridor improvement options

To discuss the screening process that will be used to prioritize improvement options

To discuss and gather comments on the draft policy recommendations

I. Welcome and Introductions

Sheila Ludlow, MDT Project Manager
Shane Stack, MDT Missoula District
Bob Burkhardt, FHWA
Darryl James, HKM Engineering; Consultant Project Manager
Jennifer James, HKM Engineering
Sarah Nicolai, HKM Engineering



II. Project Development Process and Status

III. Improvement Options

IV. Screening Process

Goals:

- Improve Corridor Operation and Design
- · Improve Corridor Safety

Objectives:

- Minimize Impacts to the Environment
- Ensure Cost Efficiency and Fundability
- Enhance Multi-Modal Transportation



VI. Comments / Next Steps



MDT attempts to provide accommodations for any known disability that may interfere with a person participating in any service, program or activity of the Department. Alternative accessible formats of this information will be provided upon request. For further information call (406) 442-0370 or TTY (406) 444-7696.



Planning Steps & So	chedule
Step #1 Identify issues ◆ Stakeholder interviews • Meet with elected officials	Oct / Dec 2005
Step #2 Assess existing transportation / environmental / land use conditions	Nov 2005 thru Jan 2006
Public Open House #1 Project kickoff—Identify issues, discuss goals	Feb 2006
Step #3 Analyze future travel demand and performance	Jan 2006
Step #4 Draft goals and objectives	Mar / Apr 2006
Step #5 Develop preliminary improvement options	Mar / Apr 2006
Public Open House #2 Introduce possible improvement options	June 2006
Temporary Project B	reak
Step #6 Analyze improvement options	Summer 2007
Step #7 Identify improvement options for further study	July / Aug 2007
Public Meeting #3 Present improvement options for further study	Aug 2007
Step #8 Screen improvement options	Fall 2007
Public Meeting #4 Present screened list of improvement options	December 2007
Step #8 Develop draft recommendations	Winter 2008
1 10 10 10 10 10 10 10 10 10 10 10 10 10	
Public Meeting #5 Present draft corridor plan	Spring 2008

For more information

Sheila Ludlow, MDT Project Manager
(406) 444-9193 / sludlow@mt.gov
Darryl James, HKM Project Manager
(406) 442-0370 / djames@hkminc.com
Jennifer James, HKM Public Involvement
(208) 442-0370 / jjames@hkminc.com
Shane Stack, MDT Engineering Services Supv.
Missoula District: (406) 523-5830 / sstack@mt.gov
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Project Description and Status

The US 93 Corridor Study is being conducted by the Montana Department of Transportation (MDT) to identify the most needed transportation improvements in the US 93 corridor between Missoula and Florence that will meet operational requirements and user needs for the next 20 years. The planning process considers the needs of local residents in Missoula, Lolo, and Florence along with other residents and the traveling public throughout the region.

To date, the planning process has included a review of existing traffic and corridor use, land use and environmental conditions, and socio-economic data and trends. Corridor goals have been drafted based on public input and the operational characteristics of the corridor. The goals have been used to guide the identification of improvement options and as a basis for screening possible improvement options.

Improvement Option Screening Process

The US 93 Corridor Plan Screening Process is being used to prioritize improvement options depending on which one best meets the Goals and Objectives of the project. The following graphic illustrates the process.

US 93 Corridor Improvement Option Screening Process





US 93 Public Meeting January 30 and 31, 2008

Project Description

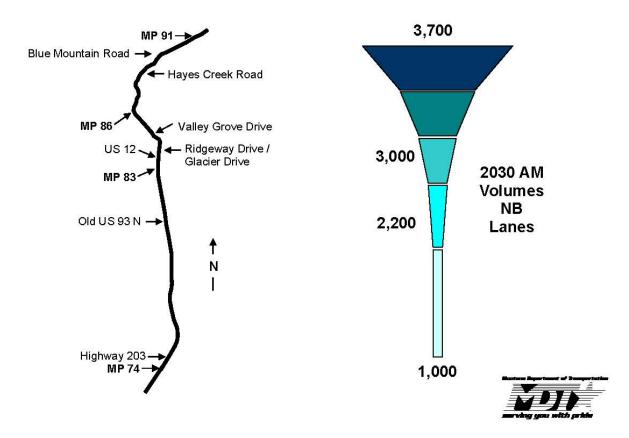
The US 93 Corridor Study is being conducted by the Montana Department of Transportation (MDT) to identify the most needed transportation improvements in the US 93 corridor between Missoula and Florence that will meet operational requirements and user needs for the next 20 years. The planning process considers the needs of local residents in Missoula, Lolo, and Florence along with other residents and the traveling public throughout the region.

What is the Function of the Corridor?

The main purpose of US 93 is the movement of people and goods. US 93 is functionally classified as a **Principal Arterial**. An arterial provides the highest level of mobility, at the highest speed, for long uninterrupted travel.

What is the Problem in the US 93 Corridor?

- Vehicles can move relatively smoothly through corridor under ideal conditions. Given the high congestion levels, any disruption of flow from an accident, inclement weather, or slow-moving vehicle could create substantial delays.
- It is difficult to access US 93 from side streets, especially at stop-controlled intersections.
- There are projected to be long mainline delays at the intersection of US 93 and Highway 203 and at signalized intersections in Lolo by 2030.





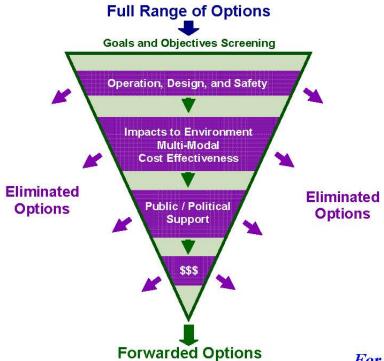


What are Possible Solutions to the Problem?

- Transit Options
- Other Options Enhancing Mode Choice
- · Options Adding Vehicular Capacity
- Travel Demand Management (TDM) / Transportation System Management (TSM)
- Spot Improvements
- Policy Tools

Improvement Option Screening Process

The following graphic illustrates the US 93 Corridor Study Improvement Option Screening Process.



Next Steps Public Meeting #4 Develop draft recommendations Public Meeting #5 Public Meeting #5 Spring 2008 Finalize corridor plan Spring 2008

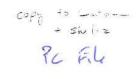
For more information

Sheila Ludlow, MDT Project Manager
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Appendix C

Letters Received from State and Federal Agencies





RECEIVED

APR 0 5 2006

ENVIRONMENTAL

Region 2 Office 3201 Spurgin Road Missoula, MT 59804-3101 406-542-5500 April 3, 2006

Jean Riley, Bureau Chief Environmental Service Bureau MT Department of Transportation PO Box 201001 Helena, MT 59620-1001



Dear Ms. Riley:

Reference: US 93 Corridor Plan, Missoula to Florence--Preliminary thoughts

We have looked at the general map and the aerial photo for this project located in Region 2 of Montana Fish, Wildlife & Parks (MFWP). We offer these initial comments on some preliminary fish and wildlife issues we identified for this project's location.

Fisheries Issues

Highway 93 currently has two stream crossings that have inadequate passage facilities for fish and aquatic organisms:

- 1. <u>Haves Creek crossing</u> (section 10, just south of Missoula). This is a perennial, high quality cutthroat trout stream in reaches upstream of the highway and above the private land parcels just upstream of the highway. The Highway 93 crossing is a steep, grossly undersized culvert that is considered a complete fish passage barrier.
- 2. <u>Carlton Creek crossing</u> (section 2, just north of Florence). This is a large tributary drainage that is intermittent in the highway crossing reach. The Highway 93 crossing is an undersized box culvert with a bottom composed of natural substrates. The crossing is likely a barrier at high flows to fish and a more frequent barrier to other aquatic organisms.

Wildlife Issues

 Missoula to Lolo Segment. Development from Missoula to the Blue Mountain Road area has pretty well eliminated wildlife habitat. From Hayes Creek to Worden Creek development is relatively less, distance from hillsides to Bitterroot River is less, and the ability for wildlife to get from the west to east side of the river is greater. The hillsides and river bottom provide winter range for white-tailed deer, and there is lots of elk use on the hillsides above the highway. In other words there is some potential for future wildlife linkage in that area. At the same time it is our impression that both black bears and white-tailed deer get hit in this area at a pretty high rate. If reconstructed, consideration should be given to providing for wildlife crossings in this area.

2. Lolo to Florence Segment. Potential linkage for grizzly bear, lynx, mountain lion and wolf occurs just south of Lolo where the Bitterroot Valley narrows for about 2-5 miles. We have evidence that all those species have been along the Bitterroot River bottom. The north end of the Bitterroot Valley is the one most likely place to provide linkage because the valley is constricted and development is relatively sparse there. In addition two major landowners in that area are very interested in applying conservation easements to their ranches. It is not until south of Hamilton before we find similar conditions that foster linkage for those species between the Bitterroot and Sapphire Mountain Ranges.

Park & Recreation Issues

- 1. <u>Fishing Access Sites</u>. There are several parcels of MFWP land along this highway corridor that are designated Fishing Access (FAS) Sites. Currently, vehicles drive off of the highway to access these sites. This is potentially creating an unsafe condition. It would be important that access to these parcels be maintained and a safer design implemented to enhance or improve that vehicle access.
- 2. <u>Trails</u>. With the existence of the great, nonmotorized trail system running from Lolo to Florence, the public and trail advocate groups are requesting to see the trail linked and extended northward from Lolo to Missoula. Whatever could be done to make this happen would be critical in meeting that demand for trails and recreation, according to the Statewide Comprehensive Outdoor Recreation Plan.

We thank you for providing the opportunity for MFWP to comment on this project, and we look forward to working with you.

(Please contact Sharon Rose at 542-5540 or <u>shrose@mt.gov</u> if you wish to receive an electronic version of these comments.)

Sincerely,

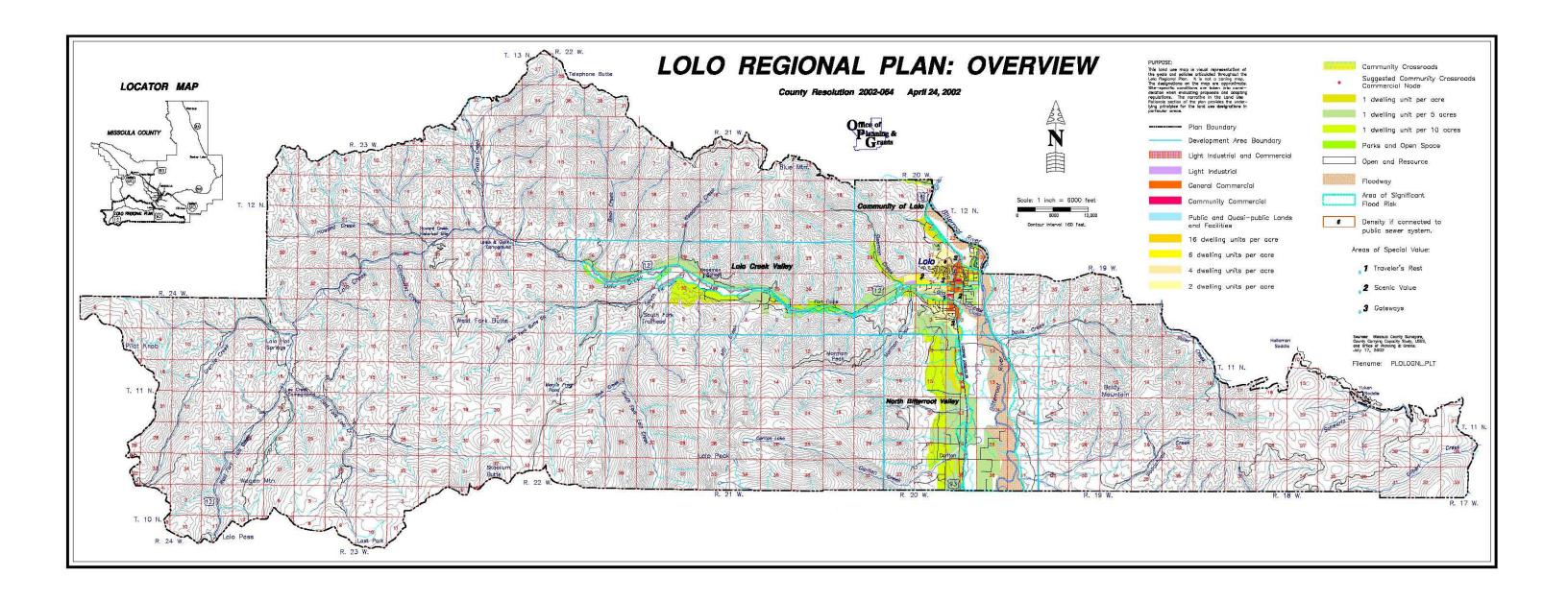
Mack Long
Regional Supervisor

W W ...

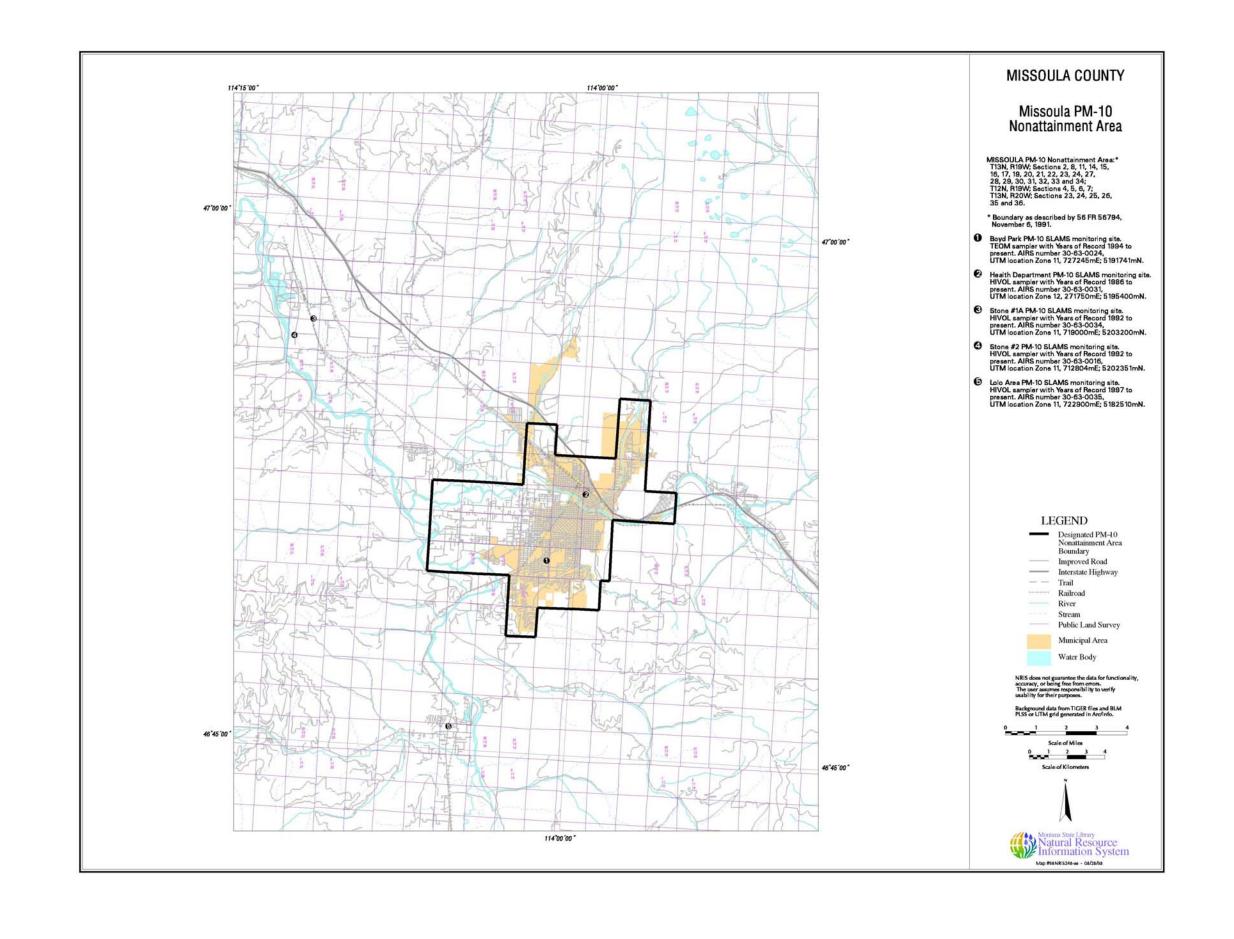
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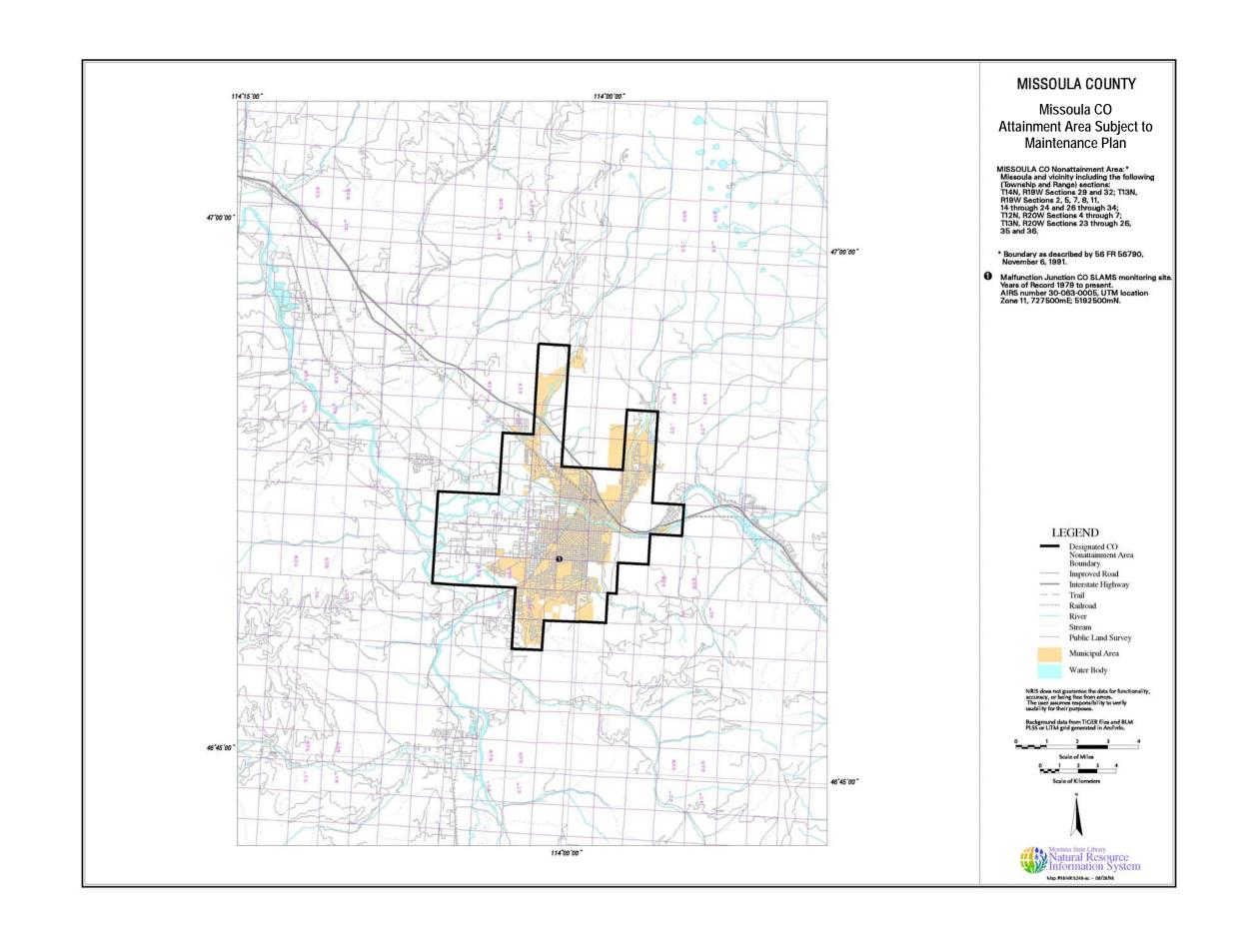
Appendix D

Map of Lolo Area Land Uses



Appendix E Non-Attainment Areas





Appendix F

Access Control Report Recommendations

ACCESS CONTROL PLAN



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1-18	42.19	11	Carterial	520 Extending Salaci	500.0	Stations	645	DEHOHMAN SE SMIT	Developed	Open	Access to subject
1-18	88.85	u	Curterist	520 Extending Salaci	500.0	Photos	645	USHOHWY M 19HT	Developed	None	Recommended agents, right-out access to school
168.	83.16	RC.	PUN	0 + 0	-	-	0 H	Typi tilay	Developed	Dyen	Fered approach with oignet
1108	1618	RE.	Cartherial	2 5 2	-	-	0 T	THREE SEVERHELL	Developed	the Direct Assess	Access ne Tyle! Way
145	8236	RG.	Cartherial	S	+		() H	TERROR HONOUT NO SOME	Developed	to God Aires	Access Brough-chapping refer **
1138	83.30	Rt.	Carteense	SDC Strepping Certain	80.0	Rosela.	2167	LOLO SHOPPING CTR. ESSET	Developed	Open	Access to shapping occasi and Properties 1-25 and 1-26 ff. Access to hatel
198	10.00	Rt.	Carriersal		-	- Andrews	- 	LOLG SHOPPING C'R FIRM!	Developed	An Direct Access	Access Brough chapping certain**
1100	88.80	11.	Cartreeval	6 E 6	-	-	-0.00	TRHUMAN W. SHALL	Developed	Open	Access to among
1438	40.01	11.	Contractor	+ 0	-	-	F 40 0	USHOHNOY IA SINCE	Descriped	Dies	MASIN POORS
1:30	40.04	Rt.	Contractor:	832 High-Turieser Restaussit	13.	13P	838	100005404066788 SHIF	Descriped	Open	Access to reclamatis and bank **
141	4830	11.	Contractor:	(H (+	-	S #1 8	USHOHW/ IA SWE	Descriped	Oim	Assess ne finigeree, Cr
NO.	10.05	86.	Public		+	-	() ()	(Hader Druk)	Developed	Open	Ferred applicable rath rightst
14/4.	1035	41	Public	8 H 5	-	-	S +1 5	Hitpens One	Developed	Open	Fened approach with oignet
140	8238	Rt.	CHEMINE		-	-	X # 3	TIRRUACEROR NINT	Developed	Ciss	Access on Control Oracid rise shared access with Property 1-65
140,140	80.00	Rt.	Carterior	723 Well of Certain Cities	28	159	- 12	THULACER OR SHIFT	Developed	Marie	Ohered access to Evanees
1.69	86.00	PE.	Carterial	INCORRECTIONS	11	135	739	USHORWY & SHIT	- Annual A	mu.	Otherwit access to blank
ME	86.00	PRIL.	Contractor	SALCINE SINCE CHARGE AND COURSE.	128	Postern	3834	USHOHOV G SHIT	Developed	Diss	Access he was shared access reth Property 1-02 Access to gas station
168,160	86.01	11	Replacted	10 Sept for Descriptions	1.0	DU	10	TRUBUS HOHNAY DE MONT	Developed	7949	Access to repulserie
1:00	98.00	ii.	Canterior		-	-	* - *	10015 US (#0HMM/ 10 5000)	Developed	Diss	Access recome charact access rath Property 1-08
- 986.5			Committee	ST2 Deve-tribute	3.0	FSF.	tis	USHONOV SE SOUT	0.00000	5 0000 25	Assess to herit
141,141	84.00	Ris.	Committee	E14 Specially/Retail Center	0.5	155	32	TREED LESS HONORS SEE SERVER	Developed	Open	Access to stropping center
	-		Cannesser	¥	-	-	-0.10	10015 L/EH40HMAY 18. 50HF	22220	0200	Aloesa ki spet NC
1988,1-00	SKOT	u.	CHRONINE	H 7	-	-	< 10	USHOHNE M. SHE	Descriped	New .	Access to open to:
108	88.08	44	Сиплиния	0 H 3	-	+	(H	USHOHINY OL SINT	Developed	Over	Assess riseness shared access rath Property 1-00
1:39	extt.	11	Reportal	16 Style-Farty Seates housing	18	DU	10	10001USHWYSE 10047	Developed	Open	Кивля эконорику всоеза стр
101,146	98.22	m.	Field	H 6	+	-	< 10	TERRO LIE HOHIOV SE SONE	Streementale	Open	Access to Seld
	1	_	Field	S # 0	-	-	< 10	904	0	0 00	Access to Delit
145	84.00	ш	Reportal	- +	-	-	0 + 0	NOW.	Strenetals	Nix Cired Access	Access na Ridgeres Chris
147,146	16.85	m	Nestretal Nestretal		-	-	8 E 8	TERRUSHWAS TON	Strettwise	Diss	Aurosis mener chared access some time Yaring Greve Drive Aurosis mener chared access somes from Yaring Greve Drive
- 100 Fin	1,150		Niversell at	16 Dept-Farty Sealed housing	1.0	Dil	19	1236USHWY 01 ROW	College V	1,20	Access to meditoria
140148	38.00	PET.				-	177		- Interhediale	Sime	CO U.Del (COU)

Project Et 1544 MESSACES Designation LECTE - LCS to Messace

ACCESS CONTROL PLAN NH 0002/900), CN 4776 US 33 NAS LOLO TO MISSOULA



*Promite testace of Trafic Engineers (FRE) Top descendes Manual - Th Editors, where approxim-

Periodic	HP (HP)	***	Астем Турм	Material Code*	Sawetty.	¥	Retireted Trefts Volume* (Trips and Day)	Personal	Asien Quefadie	Recommendation	Access locations are suffered to recommence benefits between and Comments
			Avecanal	18 Sept-fully Described transp	11	DU	19	DIRECTO PROVIDE STREET			Access to residence
143	84.80	u.	Contractor	÷ .	(+)	-	5 45 5	TELEVISION OF SHORE	Managed	NuDred Aides	Access na Yelley Grove Drive
NO.	86.00	u.	Public	S # 1	(+)	S++	S +5 1	Yorky Brow Cr	Minimize	Clean	Fined apprieth reth stop regn
148	84.00	u.	Contractor	S - F - S	(+)	C++	S #5 5	VEHICHING SE SONT	Minnestate	NuDred Aides	Access na Yelley Grove Drive
148	86.05	u.	Cortineroal		-	2.11		BEST VEHICLESOY OF SIGHT -	Minimization	Nu David Addess	Access na Yelley Grove Drive Brough Properly 140 **
147	95.00	II.	Part	77 A 1	(+)	2.44	7 4 7	NOW.	Mariadak	All Direct Access	Specific access control and design to be determined
1988	SECT.	11	Part	77 4 7	-	0.44	7 4 7	1000	Mariadale	All Direct Access	Specific access control and design to be determined
5376.3	1000	7	Reposital	16 lings Furty Descriptions of	11	DU	10	900	A 10 10 10 10 10 10 10 10 10 10 10 10 10		Specific access control and design to be determined
148,140	95.18	44	Associated	16 lings furty Descriptions of	14	DU	- 10	size Bedow Seet	Memoriale	Open	
1-81	85.10	Rt.	Fine					904	Manufale	Com	Specific access control and design to be determined
	-	_		8 2	-			100			Multiple access to herd
1-01	85.45	Ric.	Field			-	<10	SECRETOR SHAP	Manada	Open	Access to 1960
1402	18.40	u.	PHIL	2 5 3	-	1.11	2 5 0		Minimize	No Direct Access	Specific access control and design to be determined
NX.	95.60	u.	Public	S #1 5	-	***	S +0 5	Britain	Minnedate	Close	Digiti ally intermediati approach.
NO.	95.62	u.	Public	9 +	-	**	8 +0 8	Eld Leie	Manuelle	Open	forcemental cright in , right set accress have I approach with virtue sign
1409	85.65	11.	Resource:	8 + 3	-	-	8 7 3	ses explor teer	intermentals	No Direct Access	Specific access control annidesign to be determined:
1486	88.65	#	Resource	4	-		3	SERVIND OF ERRO	Memorials	Au Dred Access	Assess ou first Lave
1:05	85.69	14	Association	S 41 5	-	- ++	8 41 5	SOCIED IN TRICE	Memorale	No David Access	Access na Brd Lake
1400	95.15	u.	Resource:	3 41 5	-		8 41 5	WAX BALD THE LINES.	Manufale	No Cired Access	Access Ha World, and
1407	95.10	u	Avacense	2				RECEIPED IN TRACT	Manuellake	No David Access	Assess via Broft, and
1488	85.83	11.	Rescuited					INCOMED LA CREE	Immediate	An Direct Assess	Auroras nacificati, anni
_	_	-				_					
1/89	95.00	11	Resound	2 -	-	**	S	BROWNE LIKE THE	Internediale	An Direct Access	Aircess ris Brill Late
IS, 140A	88.09	u	Resource	3 💌 3	-	**		MITTERPOOT NO SMAIL	***	Close	Mere access into Bird Camp
	1		Resource	& #1 8	-	2.11	& #3 B	BITEROOTSO SHIP	E 25		More access ins Brittuaria
1411	88.32	Rt.	Freit	8 8	-	- **	8 +0 8	owner.	Aux.	All Direct Access	Other side ethalmost
	and a		FHIL	S #1 5	-	- ++	< 10	900	0 1200		Acress to conservation one
料,补助	68.25	ш	THE	S 61 S	-		< 30	2016	***	Open	Access to conservation give
1-08	88.00	u.	Pet	8 4 8	-	- +	S 42 1	NONE.	ture.	No Direct Access.	Acress to conservation area
145	87.00	u.	Pet	(C) 4	-	2.44	S + 1	3000	tur	No Direct Access	Arrest Ha Properly 2-fd (same series) *7
140	87.62	u.	Pet		-	- ++		NOW.	***	No Direct Access	Arress to conservation area
								2 20020			
HIL	87.10	RIL	FHIS	C + 1	-	- 11	< 10	NOME:	tur	Open	Acres is safest Line - Special acres construction printings in the Obstance
No.	82.18	RI.	PHOS	. +	-	- 11	S - 1	POME.	ture	CHE	Removing rain. Special minima at my timesena.
NO.	97.19	u.	Ps/86	S + 1	-	- 11		CHARGES	ture	Open	Personagement of hings rays. Specificacons communicate consignition commu
NO.	87.42	RII.	FHIS		*	2.44		PACHE	ture.	Cite	the control of the first control of the transfer
NO.	87.05	RL.	Peri	7 9. 1	(-+-)	+	7 E	34036	Pag.	Com	erhemat publical.
1-08	92.15	11	Association	7 4 1	(+)	0.44	7 H 1	TELEVENINA STATE STATE	ture.	No Divisit Access	Aleman via Continu Dove
140	87.35	11	Avecutal	77 4 7	-	0.44	77 47 7	1999 COCH IN DR. 1999 I	tex	All Direct Access	Alexande risk Conflicts Drove
0/10	87.10	u	Reported	2	-	-		tron cocerns per transc	***	No Cired Access	Access ris Coalities Drive
		-	7777	8 2 1	-						
1511	97.85	II.	Resource:	2 2 2	_			their cocward per trace	144	No Direct Access	Access He Codins Dave
1912	87.65	Rt.	Field	2 5		3.44		NOW.	tur	No Direct Access	Ottoer side or new next
1:13	87.8t	u	Resource:	9 😁 3	-	11.11	9 8 9	COCHEE DE 5000E	Park.	No Direct Access	Access He Coding Dave
1/38	97.81	u.	Resource.	S + S	-		8 - 5	19074	THE .	All Direct Access	Assess rea Coutine Drive
1-35	97.33	11.	Resource	8 + 8	-		8 4 8	entremocrac teos	Interestate	Close	Arrest Harres service medit: Properly 1-78
1488	67.71	100	Field	8 + 8	-	-	< 10	STEHOHNAY DE 10000	Montestate .	Open	Access to Date
1417	87.16	u.	Avadedas	Same and the same and	-	C#4	S #5 5	treattenoctico teos	Memoriale	Dies	Access the later service machin Property 1-78
1:33	87.77	14	Cartersal	All Administration for the Committee of	- 99	- 60°	- #	TIRLIBITESPOOT SO \$800.	Manufale	Open	Assess to reproductive with new service road
1-19	97.78	RIL.	Contractoral	716 December Chick Burling	2.0	159	- 77	ESTOCKHOHOLY IN THESE	Manufale	Open	Access to favor was certify
140	97.19	u	Reposite	-		(·	-	ADDISTRESSOCIACI SMOK	Memoriale	Cose	Assess He liver service madilic Property 1-78
					_	_	-		Immediate		The state of the s
No.	87.88	u	Public	7	-		-	Hayes Cover Free!		Dpart	Pered opposits with also eign
1992	87.95	RL.	Rescuital	7	-	**	-	RECUEHOHOWY M. SEEL	Internediale	Com	Multiple access rath poir sight distance
1482	45.85	RL.	Resource	3 7 7	-	- ++	3 = 3	RECOUSINGMENT SE SIDE	Internediale	Does	Multiple access reth pour sight declares
142	87.60	ě,	Resource:	341 Hilliam Proce Pall	15.6	DU	. 11	RECOUSINGHOUSE SERVE	Marriedate	Open	Access to motive frame park
1983	87.69	44	Resource	F	+	< t+	& #° 8	KIND OF RECEIVED	Managed	Close	Access na Hages Chief Road
148	87.60	Rt.	Contented	101 Jesu Wentroore	88	FSF	5 10	1000 USHOHOM SE 5000	Managed	Open.	Access to storage facility
1465	87.65	14.	Resource:		-+		S #3 5	RIBERTO SERVICE SERVICE	Attenuation.	No Direct Access	Access Halleges Creek Road
333.7	100		Field	R 21 1	-		4.86	NOW	0.0000000000000000000000000000000000000		Arrieros de Sedi
68, 1487	87.09	u	Awadenal .	I il linger large bearing manage	18	DU	19	SCEUE HWY SO SINCE	ktienentake	Store	Access to residence
1487	87.69	u.	Westernal		-+	+		SCHOOL HAVE SO SHOW	Managada	Close	Assess ris ner charact access rath Property 1-till
1765	41.44	14.			-					2768	
			Currences	TREMOVELY COMMENT	74	FSF.	14	TOTO HAVE A SHORE	Million and the		Access to Desirios
61.>88	87.06	PE.	Commercial	Title became Ottoe Building	14	KSF	- #	TUDHW 6E L MINE	Attenuated	Open	Appeals to less was contain
個,下紅			Contractor	KSE CWIE	34	KSF		1900 US HWY 68 TORES		3777	Assista la yel com
			Commercial	SIG Automobile Parts & Service	11	FSF	48	SWOUS HWY SO SINCE		- 8	Alicens & Sections
1000	Page 1		Proper	THE STREET SHEET SHEET THE STREET		00	28	TRATECOHOMONY SE SISSES	0.72.54.50	6 Table 10	Alexes to get eleg-
	88.00	u	Responded	16 lings Furty Descriptions y	18	DU	10	emethencorep men	Internediale	Open	Alones to registeria
41,142	98.05	RI.	Carrieran	-	-	2.44	7 - 1	SWOUS HWY SO TREES	Manhemble	Close	Access via new chared access rath Property 1-94
198	1000	-	Curtimental		11	FSF		SWOUGHWAN TO SEE	A		
148		m.		SKI Automobile Parts & Service			- #		Marrieda	See	Access to Suscillaris
	68.05		Operational	DR Fundure Store	14	FSF	28	TREATMENT OF SIZE		10000	Access to Suscional
148 82,144	100			(C) + (1)	-	1.11	S 81 3	TREE TREE PROPERTY OF THE PARTY	Manuelale	Com	Access He have shared access rdft-fingerty 1-88
1988	98.05 98.05	Rit.	Contractor	and the second s		_			A CONTRACTOR OF THE PARTY OF TH		
148 82,144	100	m u	Commercial	161 Lodge Fraherier Organization	299.8	mentions	11	STUDIEROHWAY ID. SERVE	Manuelake	Open	Access to began
148 82,7-96 148	88.09			Not undge Frahering Organization —	2016	priorities 	11	ENSUREMENT IS SIZE	Attenuetable Attenuetable	Opes	Assess to Origin Multiple access
148 82,748 148 146 145	88.07 88.07 88.12	u u	CHEMINE	SST Lodge Fraherund Grigerication — CSS Fundum Store					immentale	Com	
1-68 82, 1-96 1-68 1-65	98.09 98.07	u.	Commercial Commercial	PINC. HOLD	-	*	9 = 8	STOCKHOHOWAY AL BOOK			Multiple access

Page 4

Project Conv. (March 10)
Congression 100 St. - London March
March Confer March

ACCESS CONTROL PLAN NH 0000/5000, CN 4776 US 30 NAS LOLO TO MISSOULA



*Franchi testure of Trafic Engineers (TE) Fig. Somewhite Marcell. Th Estion, where approxime

Period	NP (MP)	***	Assess Type	Figure Use Code*	Quently	tree"	Retinated Treffix Volume* (Trips per Day)	Personal	Acres Charles in	Personantation	Access however are colored to recommend the district on the ac-																	
3		3.3	Resource:	EX Bright Facily Delacted Havening	1.0	00	10	TOTAL THOMSON SE TIMES	- 3		Access to institution **																	
140,140			Everantial -	Litt Bright Facility Delacted Haven's	18	DU	10	TEXTURESPRING IN THESE	1	1	Access to registerine **																	
100,1-00	10.19	-11	Residental:	TH Reporture Descriptioning	10	DU .	10	TOTAL SHORNESSY SE TIMES	Micheliale	Chies	Access to residence =																	
			Pentertal	I il ingertwee Dearest Having	10	00	10	MINUSHINAN II TIMM		3	Access to residence **																	
-	-	-	Pasterial	IN Ingertway Searce Transp	13	DU	11	TEXTURE CONTROL OF THE STATE OF		_	Aureus is regularize **																	
437.00	1 1				-	-		Contraction of the contract			CHILD THE CO. I.																	
下侧,下侧,	1831	0.0	Evaluation.	Till Begin Farry Descript Hunty	.13	DU	10	TROUGHOMORY SE TIMES	Stemedale	Djets	Assess to residence **																	
F300, F300			Evelorial.	Till Bright Total Descriptioning	1.0	DU	10	tettrustecensky sa tiock	A Samuel Control		Access to registrate **																	
100000		1000	Residental :	\$16 Bright Facily Detailed Hunting	1.0	DU	10.	MINELESHIENAN NE TORM			Access to increteria **																	
MOL	99.00	u.	Public		1000	-	-	Wernell Read	Intervente	Open	Period approach reth day sign.																	
1-102	88.35	Rt.	Field	1941	0.00	-	-	NOW.	Internetials	Matterd Assess	Other sale-annatowel																	
1-100	89.39	u.	Piet	-	-	-	-	1000	Internediate	An Elizat Access	Assess Brough Properly 1-185 to Worself-Resid *																	
1-108	88.00	Rt.	Pet	-	S-2	-		1000	Manueliste	And Climent Accounts	Other sale schattered																	
	-	_	1111111111	415/2			1177																					
1-105	88.85	u.	Exametal	1+1	- +			104	stormedate	No Circl Assess	Access on Woman front																	
1400	18.55	u	Respectat.	-	-	- 140	-	SHEWSHAFTED SHOR	Strettectate	To Circl Access	Access ma Womath Road																	
3-107	10.00	44	Consense:	SEC Pulsariable Parts Sures	1.0	FORF	60	S2TS HIGHWAY BE SWIFE	Morrectale	Open	Access to bodrains																	
1-108	19.61	u	Celterale.	This Specially Retail Contact	13	198	44	THIS INCHES WAY SO THERE	Memorials	Dies	Aurora in terrorera																	
1-109	19.59	ut.	Committee	110 december Light industrial	2.0	FSF	ta .	Status receivery to state	Minnedate	Open	Aures & Success																	
					-	-					COURT SECURIT																	
1-118	88.75	u	CHIMNIE.	157 Mile Waltersere	- 83	HSF	- 11	TRELEMONORY SE TREE	Memorials	Open	Here shalled accept with Property 1-1111																	
1-111	88.11	u	Celteral	-	**	**	-	DEHOMEN SE SIDE	Micheliale	Cone	Access rismen shared access reth Property 1-113																	
			CONDITION:	Triti Swineral Office Buriding	2.0	FOF	**	US HIGHWAY BE SHORE			Access to textress																	
1-118	10.12	0.	Carberne.	TID Server Light Milester	2.0	KSF	- 0	DESCRIPTION AT 2003	bisetrecials	Djobs	Assiss to business																	
	100000	1	CHARNE	110 Hersell Light Millertell	-28	1:3F	18	RESERVENCE SERVE	7.00	V-11.1	Assess to textraes																	
	\vdash			The state of the s	77.44			1188501505 GAZGLIBES S.	-																			
100	1	10.00	field			_	116	1016	- 21		Recommended rightin, right-stall access.																	
			Respectat.	18 Ingertweet beared houring	12	DU	10	SOCIOLAMAN SE SO SISSE	10.000		Recommended right-in, right-six assess.																	
912, 3-113, 934, 1-117,	99.10	900	Respectat	Till Department Descriptioning	12	DU	10	STREET, WATER STO STORY	Americani	Open	Chief	Encontracted rightin, right-six assess.																
HTM: 1-110	****		Celerality.	190 Fundore Store	9.0	KSF	40	STEHNSWAY BESCHE BROK	E-0.000		Percentanded right-is, right-stat assess.																	
			Carrenne 1	+			110	TETO US HOHERY SX. TIMES	1	3	Excermented rightms, rightmost accises																	
			Connection	000 Agamatic Park & Seven	- 11	139	46	SOCCUS HECHENRY SA SONCE	1		Recommended rightins, right-road assess																	
16/8				1072010173010010				Rus Marrier front	Mariante	Opin																		
HON.	10.00	44	Polic					4	Metecide	Chief.	Period approach with ognid																	
	1 1		Pier		-	-		1004			Access to Dec																	
			Residental.	TH Replicated Detailed Housing	18	DU	10	SOCHOWAY IC SO DISK]	3		Access to registerine																
HILPHIA.		_	Residental:	18 Ingerway Seaded Huntig	18	00	10	STREETWAY 2010 SIDE			Access to residence																	
1-118,1-118	88.00	-	Consense.	DR Farnish Store	- 0.0	KSF	40	STEPHENWAY BESCHIEF 1880H	Memoride	Open	Access to topchess																	
			Consessor		-	-	-	STOUS HOHING SE SIECK			1				1	1						1	K 19804					Assess in business
													1															
-		-	CHEMINE	\$40 Automobile Parts & Service	. 89	137	48	SOCIUS HECHWAY SE SECU	100000000000000000000000000000000000000	E TOWNSHIP IN	Assess to business																	
1-133	88.40	u	CHINNIA		1000	**	-	SOME CHARMEN SHEET	Manuelake	Au Dred Assess	Access ris Mus Mourten Fred																	
1-121	TRUCK.	ţţ.	Converse.	Latt. Co.	0.77			THOME!	Marriedale	Mis Cirrect Assistance	Access no this brounder front																	
1-122	88.33	44	Pet			-	510	USHBOHNORY BE SERVE	Internedials	Open	Access for 68th righttensine																	
A. A. O. C. Z.	10000	132	Catavian	BIG Automotive Care-Cartler	1.0	KSF	10	GETSHEHWAY SO SOON	1/15/RUSS**	3 (20)/45 3	Access to business																	
1-134,1-125	88.11	-	Contraction:	SIC Advision Care Certar	1.0	KSF	10	GENERAL STREET	Internecials	Diese	Access to September																	
	-	-				_				_	01107070700																	
			CHEMINE	+	**	-	+10	DEHOMOST STOCK		- 3	Presentational Cognition, rightness shared access																	
-125 ×126			CHARGE:	- +	-	-	410	BOSCOMONINY SE SIGO					Excentrained digition, right-size shared occurs															
-127,1-126	19.19	14	Everted	Till Bright Facily Debuted Housing	1.0	DU	10.	460 US HOHMY SS. SECK	Etherneride	New	Percentage of a green, mythrough shared access																	
1-129			Celevair.	BIC Automotive Care-Certier	1.3	1:3F	10	AICS SETTER ROOT RO-18894	7,011,010,01111	100.00	Encommended righters, right-risk shared account.																	
		0.00	Residental	I ill lings from Descriptions	13	DU	10	AUCT BETTERPROOT NO TORRE	1 1	1 1						- 4	Recommended right is, right-risk shared access.											
	-	_	Committee					ADDICATED HONORY SA SANDA							Access ris rein sousse													
				10000		_				12755-2-10																		
108,5-101,	8838	11	Restacted	-		-		MOTUR HOHMOY SE SMOX	Attenuetate	Clea	Access ris rem ecosos																	
-120,1-120	177	-	CHARGE			17	-	AZEBITERROOTRO 1884		-5000	1550000000		South Control	Control of the Control			500100000	7.77		-	Access memer ecosos							
- 9		199	Executor	+	10 m	S + 3	-	AUSBITTERPOOTING 1884	- 9		Access marriers access																	
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Appendix G Detailed Costs and Cost Derivations

Improvement Option: Two New Travel Lanes on U.S. 93 from Lolo to Missoula

Item	Quantity	Units	Cost/Unit #	Cost
1. Embankment in place	140400	C.Y.	\$ 7.41	1,040,364
2. Pl. Mix Bit Surf.	25440	TON	\$ 26.28	668,563
3. Asphalt Cement	1524	TON	\$ 337.87	514,914
4. Cr. Agg. Crse	93864	C.Y.	\$ 17.32	1,625,724
5. Cover	93866	S.Y.	\$ 0.55	51,626
6. Seed/Fert.	12	Acres	\$ 400.00	4,800
7. Culvert Ext.	1	L.S.	\$ 180,000.00	180,000
8. Signing/Striping	1	L.S.	\$ 75,000.00	75,000
9. Topsoil salvage & place	5000	C.Y.	\$ 3.51	17,550
10. Fencing & Misc.*	1	L.S.	\$ 500,000.00	500,000
11. Retaining Wall	1	Ea.	\$ 20,931,559.00	20,931,559
(see separate itemized estimate for this item) 12. Reconstruction of Existing Lanes	5 lanes over 6 mi	per lane per mile	\$ 1,000,000.00 _	30,000,000
Subtotal				55,610,101
Traffic Control (15%)			_	8,341,515
Subtotal				63,951,616
Mobilization (10%)			_	6,395,162
Subtotal				70,346,778
Contingency (15%)			_	10,552,017
Subtotal				80,898,794
Construction Engineering (10%)				8,089,879
Design Engineering (20%)				16,179,759
Right-of-Way (29 acres @ 5000/acre)			_	145,000
Total Estimated Cost				105,313,432

[#] Unit costs based on MDT English Average Bid Prices - 2007
* Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Two New HOV Lanes on U.S. 93 from Lolo to Missoula

ltem	Quantity	Units	Cost/Unit #	Cost
Embankment in place	140400	C.Y.	\$ 7.41	1,040,364
2. Pl. Mix Bit Surf.	25440	TON	\$ 26.28	668,563
3. Asphalt Cement	1524	TON	\$ 337.87	514,914
4. Cr. Agg. Crse	93864	C.Y.	\$ 17.32	1,625,724
5. Cover	93866	S.Y.	\$ 0.55	51,626
6. Seed/Fert.	12	Acres	\$ 400.00	4,800
7. Culvert Ext.	1	L.S.	\$ 180,000.00	180,000
8. Signing/Striping	1	L.S.	\$ 125,000.00	125,000
9. Topsoil salvage & place	5000	C.Y.	\$ 3.51	17,550
10. Fencing and Misc.*	1	L.S.	\$ 500,000.00	500,000
11. Retaining Wall	1	Ea.	\$ 20,931,559.00	20,931,559
(see separate itemized estimate for this item) 12. Reconstruction of Existing Lanes	5 lanes over 6 mi	per lane per mile	\$ 1,000,000.00	30,000,000
Subtotal				55,660,101
Traffic Control (15%)			•	8,349,015
Subtotal				64,009,116
Mobilization (10%)			•	6,400,912
Subtotal				70,410,028
Contingency (15%)				10,561,504
Subtotal				80,971,532
Construction Engineering (10%)				8,097,153
Design Engineering (20%)				16,194,306
Right-of-Way (29 acres @ 5000/acre)				145,000
Total Estimated Cost				105,407,991

[#] Unit costs based on MDT English Average Bid Prices - 2007
* Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Elevated Expressway with Two New Lanes from Lolo to Missoula

Item	Quantity	Units	Cost/Unit #	Cost
Elevated Roadway including ramps	909,440	FT^2	\$ 135.00	122,774,400
2. Signing/Striping	1 5 lanes	LS per lane	\$ 90,000.00	90,000
3. Reconstruction of Existing Lanes	over 6 mi	per mile	\$ 1,000,000.00	30,000,000
Subtotal				152,864,400
Traffic Control (15%)				22,929,660
Subtotal				175,794,060
Mobilization (18%)				31,642,931
Subtotal				207,436,991
Contingency (15%)			•	31,115,549
Subtotal				238,552,539
Construction Engineering (15%)				35,782,881
Design Engineering (20%)				47,710,508
Right-of-Way (5 acres @ 5000/acre)				25,000
Total Estimated Cost				322,070,928

[#] Unit costs based on Industry Standard in Montana & MDT English Avg. Bid Prices 2007

^{*} Costs do not include lighting

Improvement Option: Two New Lanes and Center Reversible HOV Lane from Lolo to Missoula

Item	Quantity	Units	Cost/Unit #	Cost
Embankment in place	140400	C.Y.	\$ 7.41	1,040,364
2. Pl. Mix Bit Surf.	25440	TON	\$ 26.28	668,563
3. Asphalt Cement	1524	TON	\$ 337.87	514,914
4. Cr. Agg. Crse	93864	C.Y.	\$ 17.32	1,625,724
5. Cover	93866	S.Y.	\$ 0.55	51,626
6. Seed/Fert.	12	Acres	\$ 400.00	4,800
7. Culvert Ext.	1	L.S.	\$ 180,000.00	180,000
8. Signing/Striping	1	L.S.	\$ 150,000.00	150,000
9. Topsoil salvage & place	5000	C.Y.	\$ 3.51	17,550
10. Concrete Barrier Rail (10' section)	6340	Ea.	\$ 550.00	3,487,000
11. Grade Separated Interchange - Full (3 ea.) (see separate itemized estimate for this item)	1	Ea.	\$ 6,623,343.00	6,623,343
12. Fencing and Misc.*	1	L.S.	\$ 500,000.00	500,000
13. Retaining Wall	1	Ea.	\$ 20,931,559.00	20,931,559
(see separate itemized estimate for this item) 14. Reconstruction of Existing Lanes	5 lanes over 6 mi	per lane per mile	\$ 1,000,000.00	30,000,000
Subtotal				65,795,444
Traffic Control (15%)			_	9,869,317
Subtotal				75,664,760
Mobilization (10%)				7,566,476
Subtotal			_	83,231,236
Contingency (15%)				12,484,685
Subtotal			_	95,715,922
Construction Engineering (10%)				9,571,592
Design Engineering (20%)				19,143,184
Right-of-Way (29 acres @ 5000/acre)			_	145,000
Total Estimated Cost				124,575,699
# Unit costs based on MDT English Average Bid Price * Misc. items include survey, erosion control, mail box				

Improvement Option: Center Reversible HOV Lanes with new lane from Lolo to Missoula

ltem	Quantity	Units	Cost/Unit #	Cost
Embankment in place	70200	C.Y.	\$ 7.41	520,182
2. Pl. Mix Bit Surf.	12720	TON	\$ 26.28	334,282
3. Asphalt Cement	762	TON	\$ 337.87	257,457
4. Cr. Agg. Crse	46932	C.Y.	\$ 17.32	812,862
5. Cover	46933	S.Y.	\$ 0.55	25,813
6. Seed/Fert.	6	Acres	\$ 400.00	2,400
7. Culvert Ext.	1	L.S.	\$ 100,000.00	100,000
8. Signing/Striping	1	L.S.	\$ 150,000.00	150,000
9. Topsoil salvage & place	2500	C.Y.	\$ 3.51	8,775
10. Concrete Barrier Rail	6340	Ea.	\$ 550.00	3,487,000
Grade Separated Interchange-Full (3 ea.) (see separate itemized estimate for this item)	1	Ea.	\$ 6,623,343.00	6,623,343
12. Fencing & Misc.**	1	L.S.	\$ 600,000.00	600,000
13. Retaining Wall	1	Ea.	\$ 20,931,559.00	20,931,559
(see separate itemized estimate for this item) 14. Reconstruction of Existing Lanes	5 lanes over 6 mi	per lane per mile	\$ 1,000,000.00	30,000,000
Subtotal				63,853,673
Traffic Control (15%)				9,578,051
Subtotal				73,431,724
Mobilization (10%)				7,343,172
Subtotal				80,774,896
Contingency (15%)			•	12,116,234
Subtotal				92,891,131
Construction Engineering (10%)				9,289,113
Design Engineering (20%)				18,578,226
Right-of-Way (215 acres @ 5000/acre)				1,075,000
Total Estimated Cost				121,833,470

[#] Unit costs based on MDT English Average Bid Prices - 2007
* Costs do not include lighting
** Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Center Reversible Lanes with New Lane from Lolo to Missoula

ltem	Quantity	Units	Cost/Unit #	Cost
Embankment in place	70200	C.Y.	\$ 7.41	520,182
2. Pl. Mix Bit Surf.	12720	TON	\$ 26.28	334,282
3. Asphalt Cement	762	TON	\$ 337.87	257,457
4. Cr. Agg. Crse	46932	C.Y.	\$ 17.32	812,862
5. Cover	46933	S.Y.	\$ 0.55	25,813
6. Seed/Fert.	6	Acres	\$ 400.00	2,400
7. Culvert Ext.	1	L.S.	\$ 100,000.00	100,000
8. Signing/Striping	1	L.S.	\$ 150,000.00	150,000
9. Topsoil salvage & place	2500	C.Y.	\$ 3.51	8,775
10. Concrete Barrier Rail (10' section)	6340	Ea.	\$ 550.00	3,487,000
11. Grade Separated Interchange - Full (3 ea.) (see separate itemized estimate for this item)	1	Ea.	\$ 6,623,343.00	6,623,343
12. Fencing & Misc.*	1	L.S.	\$ 600,000.00	600,000
13. Retaining Wall	1	Ea.	\$ 20,931,559.00	20,931,559
(see separate itemized estimate for this item) 14. Reconstruction of Existing Lanes	5 lanes over 6 mi	per lane per mile	\$ 1,000,000.00	30,000,000
Subtotal				63,853,673
Traffic Control (15%)			<u>-</u>	9,578,051
Subtotal				73,431,724
Mobilization (10%)			<u>-</u>	7,343,172
Subtotal				80,774,896
Contingency (15%)			-	12,116,234
Subtotal				92,891,131
Construction Engineering (10%)				9,289,113
Design Engineering (20%)				18,578,226
Right-of-Way (215 acres @ 5000/acre)			-	1,075,000
Total Estimated Cost				121,833,470

[#] Unit costs based on MDT English Average Bid Prices - 2007, 2006, 2005

^{*} Costs do not include lighting

^{*} Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Eastside Bypass from Florence to Missoula - 2 Lanes

Item	Quantity	Units	Cost/Unit #	Cost
Unclassified Excavation	468000	C.Y.	\$ 3.52	1,647,360
2. Pl. Mix Bit SurfGr. S	84800	TON	\$ 26.28	2,228,544
3. Asphalt Cement - PG 58-28	5080	TON	\$ 337.87	1,716,380
4. Cr. Agg. Crse	312880	C.Y.	\$ 17.32	5,419,082
5. Topsoil S&P	100000	C.Y.	\$ 3.51	351,000
6. Cover	1200000	S.Y.	\$ 0.55	660,000
7. Seed/Fert.	240	Acres	\$ 400.00	96,000
8. Signing/Striping	1	L.S.	\$ 250,000.00	250,000
9. Culverts/Drainage	1	L.S.	\$ 1,275,000.00	1,275,000
10. Fencing & Misc.**	1	L.S.	\$ 850,000.00	850,000
Subtota	I		_	14,493,365
Traffic Control (15%)			_	2,174,005
Subtota	I			16,667,370
Mobilization (10%)			_	1,666,737
Subtota	I			18,334,107
Contingency (15%)			_	2,750,116
Subtota	I			21,084,223
Construction Engineering (10%)				2,108,422
Design Engineering (20%)				4,216,845
Right-of-Way (236 acres @ 5000/acre)			_	1,180,000
Total Estimated Cost				28,589,490

Unit costs based on MDT English Average Bid Prices - 2007, 2006, 2005

^{*} Costs do not include lighting

^{**} Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Eastside Access Roadway from Lolo to Missoula - 2 Lanes

Item	Quantity	Units	(Cost/Unit #	Cost
Unclassified Excavation	187200	C.Y.	\$	3.52	658,944
2. Pl. Mix Bit SurfGr. S	33920	TON	\$	26.28	891,417.60
3. Asphalt Cement - PG 58-28	2032	TON	\$	337.87	686,552
4. Cr. Agg. Crse	125152	C.Y.	\$	17.32	2,167,633
5. Topsoil S&P	40000	C.Y.	\$	3.51	140,400
6. Cover	480000	S.Y.	\$	0.55	264,000
7. Seed/Fert.	96	Acres	\$	400.00	38,400
8. Signing/Striping	1	L.S.	\$	100,000.00	100,000
9. Culverts/Drainage	1	L.S.	\$	510,000.00	510,000
10. Fencing & Misc.*	1	L.S.	\$	500,000.00	500,000
Subtotal				_	5,957,346
Traffic Control (15%)				_	893,602
Subtotal					6,850,948
Mobilization (10%)				_	685,095
Subtotal					7,536,043
Contingency (15%)				_	1,130,406
Subtotal					8,666,449
Construction Engineering (10%)					866,645
Design Engineering (20%)					173,329
Right-of-Way (94.4 acres @ 5000/acre)				_	472,000
Total Estimated Cost					10,178,423

[#] Unit costs based on MDT English Average Bid Prices - 2007, 2006, 2005

^{*} Costs do not include lighting

^{**} Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Improved Park & Ride Facilities (Sheltered Waiting Area & Racks)

Item	Quantity	Units	Cost/Unit #		Cost	
Covered Pedestrian Shelter	1	L.S.	\$	55,000	\$ 55,000	
2. Bicycle Racks	3	Ea.	\$	450	\$ 1,350	
3. Landscaping/Sprinklers	1	L.S.	\$	8,000	\$ 8,000	
4. Lighting/Signing	1	L.S.	\$	8,500	\$ 8,500	
5. Connection Path(s)	1	L.S.	\$	5,000	\$ 5,000	
6. Bike Lockers	15	Lockers	\$	1,000	\$ 15,000	
Subtotal					\$ 92,850	
Mobilization (15%)					\$ 13,927	
Subtotal					\$ 106,777	
Contingency (15%)					\$ 16,016	
Subtotal					\$ 122,793	
Construction Engineering (10%)					\$ 12,279	
Design Engineering (12%)					\$ 14,735	
Right-of-Way					\$ 	
Total Estimated Cost					\$ 150,000	

^{*} includes excavation & removal, revegetation, fencing & sign removal, and traffic control # cost data from website www.bicycling info.org/bikecost sponsored by NCHRP and others.

Improvement Option: Bike Lanes on US 93 from Florence to Missoula

Item	Quantity	Units	C	ost/Unit #	Cost
Embankment in place	166222	C.Y.	\$	7.41	1,231,705
2. Pl. Mix Bit Surf.	8789	TON	\$	26.28	230,975
3. Asphalt Cement	527	TON	\$	337.87	178,057
4. Cr. Agg. Crse	15504	C.Y.	\$	17.32	268,529
5. Drainage/Culvert Extension	1	L.S.	\$	50,000.00	50,000
Subtotal				·	1,959,267
Traffic Control (15%)					293,890
Subtotal					2,253,157
Mobilization (15%)				,	337,974
Subtotal					2,591,130
Contingency (15%)					388,670
Subtotal					2,979,800
Construction Engineering (10%)					297,980
Design Engineering (20%)					595,960
Right-of-Way (Permits Only)					10,000
Total Estimated Cost					3,883,740
# Unit costs based on MDT English Average Bid Pr * Assume 5' wide paths with 11/2" Pl. Mix + 4" CAC					

Improvement Option: Separated Bike Path/Pedestrian Path on West Side from Lolo to Missoula and on East Side from Florence to Missoula*

Item	Quantity	Units	Cost/Unit #		Cost	
1. Pl. Mix Bit. Surf.	11633	Tons	\$	26.28	\$ 305,702	
2. Asphalt Cement	698	Tons	\$	430.00	\$ 299,925	
3. Cr. Agg. Crse.	20520	C.Y.	\$	17.32	\$ 355,406	
4. Embankment in Place	56250	C.Y.	\$	7.41	\$ 416,813	
5. Drainage	1	L.S.	\$	23,000.00	\$ 23,000	
6. Signage & Misc.**	1	L.S.	\$	68,000.00	\$ 68,000	
Subtotal					\$ 1,468,846	
Mobilization (15%)					\$ 220,327	
Subtotal					\$ 1,689,173	
Contingency (10%)					\$ 168,917	
Subtotal					\$ 1,858,090	
Construction Engineering (10%)					\$ 185,809	
Design Engineering (10%)					\$ 185,809	
Right-of-Way					\$ 	
Total Estimated Cost					\$ 2,229,708	

^{*} Assume 10' wide path - 1 1/2" pl. mix plus 4" gravel section

[#] Unit costs derived from MDT English Average Bid Prices - 2007

^{**} Misc. items include survey, erosion control, etc.

Improvement Option: Super Two Configuration with Roundabouts** - 2 lanes

Item	Quantity	Units	(Cost/Unit #	Cost
Cover - Existing Road	650000	S.Y.	\$	0.55	357,500
2. Striping - Existing Road	1	L.S.	\$	70,000.00	70,000
3. Embankment in Pl.	2000	C.Y.	\$	7.41	14,820
4. Pl. Mix Bit Surf.	6575	Tons	\$	26.28	172,791
5. Asphalt	390	Tons	\$	337.87	131,769
6. Cr. Agg. Crse.	18625	C.Y.	\$	17.32	322,585
7. Curb & Gutter	3000	L.F.	\$	15.28	45,840
8. Drainage	1	L.S.	\$	20,000.00	20,000
9. Vegetation	1	L.S.	\$	15,000.00	15,000
10. Fencing & Misc.##	1	L.S.	\$	500,000.00	500,000
Subtotal				-	1,650,305
Traffic Control (15%)				-	247,546
Subtotal					1,897,851
Mobilization (10%)				_	189,785
Subtotal					2,087,636
Contingency (15%)				-	313,145
Subtotal					2,400,782
Construction Engineering (10%)					240,078
Design Engineering (20%)					480,156
Right-of-Way				-	
Total Estimated Cost					3,121,016

[#] Unit costs based on MDT English Average Bid Prices - 2007, 2006, 2005

^{*} Costs do not include lighting

^{** 5} Roudabouts - assume roundabouts will require full reconstruction with 135' Ø circle, 5" Pl. Mix, 24" CAC ## Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Two HOV Lanes within Existing Lane Structure from Lolo to Missoula

Item	Quantity	Units	C	ost/Unit #	Cost
1. Signing/Striping	1	L.S.	\$	30,000.00	30,000
Subtotal					30,000
Traffic Control (15%)					4,500
Subtotal					34,500
Mobilization (10%)					3,450
Subtotal					37,950
Contingency (15%)					5,693
Subtotal					43,643
Construction Engineering (10%)					4,364
Design Engineering (20%)					8,729
Right-of-Way					
Total Estimated Cost					56,735
# Unit costs based on MDT English Average Bid P * Costs do not include lighting	rices - 2007				

Improvement Option: Center Reversible HOV Lane within Existing Lane Structure from Lolo to Missoula

Item	Quantity	Units	Cost/Unit #	Cost
1. Signing/Striping	1	L.S.	\$ 150,000.00	150,000
2. Concrete Barrier Rail	6340	Ea.	\$ 500.00	3,170,000
Full Interchange (3 ea.) (see separate itemized estimate for this item)	1	Ea.	\$ 6,623,343.00	6,623,343
Subtotal				9,943,343
Traffic Control (15%)				1,491,501
Subtotal				11,434,844
Mobilization (10%)				1,143,484
Subtotal				12,578,329
Contingency (15%)			•	1,886,749
Subtotal				14,465,078
Construction Engineering (10%)				1,446,508
Design Engineering (20%)				289,302
Right-of-Way (200 acres @ 5000/acre)				1,000,000
Total Estimated Cost				17,200,888
# Unit costs based on MDT English Average Bid Pr *Costs do not include lighting	ices - 2007			

Improvement Option: Center Reversible Travel Lane within Existing Lane Structure from Lolo to Missoula

Item	Quantity	Units	Cost/Unit #	Cost
1. Signing/Striping	1	L.S.	\$ 150,000.00	150,000
2. Concrete Barrier Rail	6340	Ea.	\$ 500.00	3,170,000
Full Interchange (3 ea.) (see separate itemized estimate for this item)	1	Ea.	\$ 6,623,343.00	6,623,343
Subtotal				9,943,343
Traffic Control (15%)			-	1,491,501
Subtotal				11,434,844
Mobilization (10%)			-	1,143,484
Subtotal				12,578,329
Contingency (15%)			-	1,886,749
Subtotal				14,465,078
Construction Engineering (10%)				1,446,508
Design Engineering (20%)				289,302
Right-of-Way (200 acres @ 5000/acre)			_	1,000,000
Total Estimated Cost				17,200,888
# Unit costs based on MDT English Average Bid F *Costs do not include lighting	Prices - 2007			

Improvement Option: HOV Lane Reversal within Existing Lane Structure

Item	Quantity	Units	С	ost/Unit #	Cost
1. 10' - Concrete Barrier Rail	6336	Ea.	\$	500.00	\$ 3,168,000
2. Epoxy	870	Gal.	\$	51.70	\$ 44,979
3. Signage	6	L.S.	\$	10,000.00	\$ 60,000
4. Gates	12	Ea.	\$	5,000.00	\$ 60,000
Subtotal					\$ 3,332,979
Traffic Control (L.S.)					\$ 11,000
Mobilization (L.S.)					\$ 3,000
Contingency (L.S.)					\$ 2,000
Construction Engineering (L.S.)					\$ 2,000
Design Engineering (L.S.)					\$ 2,000
Right-of-Way					\$ <u>-</u>
Total Estimated Cost					\$ 3,352,979

[#] Unit costs based on MDT English Average Bid Prices for 2005 & 2006 adjusted for inflation and Average Bid Prices for 2007

Improvement Option: Grade Separated Intersections - Full Interchange **

ltem	Quantity	Units	Cost/Unit *	Cost
1. Pl. Mix Bit. Surf.	2655	Tons	\$ 26.28	\$ 69,773
2. Asphalt Cement	159	Tons	\$ 337.87	\$ 53,721
3. Cr. Agg. Crse.	5166	C.Y.	\$ 17.32	\$ 89,475
4. Embankment in Place	555300	C.Y.	\$ 7.41	\$ 4,114,773
5. Drainage	1	L.S.	\$ 300,000.00	\$ 300,000
6. Bridge Structure	9600	S.F.	\$ 136.00	\$ 1,305,600
7. Misc. #	1	L.S.	\$ 690,000.00	\$ 690,000
Subtotal				\$ 6,623,343
Traffic Control (15%)				\$ 993,501
Subtotal				\$ 7,616,844
Mobilization (18%)				\$ 1,371,032
Subtotal				\$ 8,987,876
Contingency (15%)				\$ 1,348,181
Subtotal				\$ 10,336,058
Construction Engineering (15%)				\$ 1,550,409
Design Engineering (20%)				\$ 2,067,212
Right-of-Way (150 acres @ \$	5,000/acre)			\$ 750,000
Total Estimated Cost				\$ 14,703,678

^{# -} includes survey, signing, striping, fencing, revegetation, seal & cover

^{* -} bridge structure cost from Industry Standard Estimates - other unit costs from MDT Average Bid Prices - 2007

^{** -} assumes simple diamond interchange with single lane ramps & side road overpass

Improvement Option: Frontage Road/Connecting Roadway System on both sides of Roadway over Entire Corridor except Old US 93

Item	Quantity	Units	Cost/Unit #	Cost
Unclassified Excavation	904800	C.Y.	\$ 3.52	3,184,896
2. Pl. Mix Bit SurfGr. S	163947	TON	\$ 26.28	4,308,518
3. Asphalt Cement - PG 58-28	9821	TON	\$ 337.87	3,318,334
4. Cr. Agg. Crse	604901	C.Y.	\$ 17.32	10,476,891
5. Topsoil S&P	193333	C.Y.	\$ 3.51	678,600
6. Cover	2320000	S.Y.	\$ 0.55	1,276,000
7. Seed/Fert.	464	Acres	\$ 400.00	185,600
8. Signing/Striping	1	L.S.	\$ 483,333.33	483,333
9. Culverts/Drainage	1	L.S.	\$ 2,465,000.00	2,465,000
10. Fencing & Misc.**	1	L.S.	\$ 1,643,333.33	1,643,333
Subtota	ıI		<u>-</u>	28,020,506
Traffic Control (15%)			_	4,203,076
Subtota	ıl			32,223,582
Mobilization (10%)			_	3,222,358
Subtota	ı			35,445,940
Contingency (15%)			_	5,316,891
Subtota	I			40,762,831
Construction Engineering (10%)				4,076,283
Design Engineering (20%)				815,257
Right-of-Way (450 acres @ 5000/acre)			_	2,250,000
Total Estimated Cost				47,904,371

Unit costs based on MDT English Average Bid Prices - 2007, 2006, 2005

^{*} Costs do not include lighting

^{**} Misc. items include survey, erosion control, mail boxes, cattle guards, etc.

Improvement Option: Intersection Improvements - Right Turn Lane*

Item	Quantity	Units	C	ost/Unit #	Cost
Topsoil Stockpile & Place	450	C.Y.	\$	3.51	\$ 1,580
2. Embankment in Place	4700	C.Y.	\$	7.41	\$ 34,827
3. Cr. Agg. Crse	2300	C.Y.	\$	17.32	\$ 39,836
4. Pl. Mix Bit Surf Gr. D	1550	Ton	\$	67.71	\$ 104,951
5. Revegetation	5	Acre	\$	400.00	\$ 2,000
6. Asphalt Cement	93	Ton	\$	432.09	\$ 40,184
7. Signage/Striping	1	L.S.	\$	5,800.00	\$ 5,800
8. Drainage	1	L.S.	\$	7,000.00	\$ 7,000
Subtotal					\$ 236,177
Traffic Control (15%)					\$ 35,427
Subtotal					\$ 271,604
Mobilization (10%)					\$ 27,160
Subtotal					\$ 298,764
Contingency (15%)					\$ 44,815
Subtotal					\$ 343,579
Construction Engineering (10%)					\$ 34,358
Design Engineering (20%)					\$ 68,716
Right-of-Way					\$
Total Estimated Cost/Unit					\$ 446,653 per turn lane
# Unit costs based on MDT Englis * Costs do not include lighting	sh Average Bid F	Prices - 2007			

Improvement Option: Pedestrian Signal Actuation

Quantity	Units	Co	ost/Unit #		Cost
1	Each	\$	400.00	\$	400
1	Each	\$	1,000.00	\$	1,000
				\$	1,400
				\$	210
				\$	1,610
				\$	242
				\$	1,852
				\$	185_
				\$	2,037
				\$	204
				\$	163
				\$	<u>-</u>
				\$ F	2,403 per crossing*
	1	1 Each	1 Each \$	1 Each \$ 400.00	1 Each \$ 400.00 \$ 1 Each \$ 1,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

[#] Unit costs based on MDT English Average Bid Prices - 2006/2007 *Estimate does not include cost for amount of wire at each intersection.

Improvement Option: Improved Ped. Crossings at Bus Stops & Park & Ride Locations

ltem	Quantity	Units	C	cost/Unit *	Cost
Bridge Deck - Pedestrian	7200	FT^2	\$	100.00	\$ 720,000
2. Abutments	2	Ea.	\$	18,000.00	\$ 36,000
3. ADA Approach Path #	1	L.S.	\$	40,000.00	\$ 40,000
4. Landscaping	1	L.S.	\$	4,000.00	\$ 4,000
5. Signing/Lighting	1	L.S.	\$	20,000.00	\$ 20,000
6. Bridge Railing/Fence	200	L.F.	\$	85.00	\$ 17,000
Subtotal					\$ 837,000
Mobilization (15%)					\$ 126,000
Subtotal					\$ 963,000
Contingency (25%)					\$ 241,000
Subtotal					\$ 1,204,000
Construction Engineering (15%)					\$ 181,000
Design Engineering (10%)					\$ 120,000
Right-of-Way					\$ <u>-</u>
Total Estimated Cost					\$ 1,505,000

includes embankment, CBC, Pl.Mix Path

^{*} cost data from website www.bicyclinginfo.org/bikecost sponsored by NCHRP and others

Improvement Option: Animal Crossing Treatments - 4'x8' RCB, 3 each

Item	Quantity	Units	Co	st/Unit #	Cost
1. 4'x8' RCB	258	L.F.	\$	700.00	\$ 180,600
Subtotal					\$ 180,600
Traffic Control (10%)					\$ 18,060
Subtotal					\$ 198,660
Mobilization (15%)					\$ 29,799
Subtotal					\$ 228,459
Contingency (10%)					\$ 22,846
Subtotal					\$ 251,305
Construction Engineering (10%)					\$ 25,130
Design Engineering (8%)					\$ 20,104
Right-of-Way					\$
Total Estimated Cost					\$ 296,540
# Unit costs based on MDT Engl	ish Average Bid I	Prices - 2006			

Improvement Option: Animal Crossing Treatments - 12'x22' RCB, 3 each

Item	Quantity	Units	C	ost/Unit #	Cost
1. 12'x22' RCB	252	L.F.	\$	1,700.00	\$ 428,400
Subtota	ı				\$ 428,400
Traffic Control (10%)					\$ 42,840
Subtota	ı				\$ 471,240
Mobilization (15%)					\$ 70,686
Subtota	ı				\$ 541,926
Contingency (10%)					\$ 54,193
Subtota	ı				\$ 596,119
Construction Engineering (10%)					\$ 59,612
Design Engineering (8%)					\$ 47,689
Right-of-Way					\$
Total Estimated Cost					\$ 703,420
# Unit costs based on MDT Eng	ılish Average Bid F	Prices - 2006/	2007		

Improvement Option: Transportation Communication System

Item	Quantity	Units	Cost/Unit #			Cost							
1. Message Sign	1	E.A.	\$	98,000.00	\$	98,000							
2. Structure	1	E.A.	\$	98,000.00	\$	98,000							
Subtota	l				\$	196,000							
Traffic Control (10%)					\$	19,600							
Subtota	I				\$	215,600							
Mobilization (15%)					\$	32,340							
Subtota	I				\$	247,940							
Contingency (10%)					\$	24,794							
Subtota	I				\$	272,734							
Construction Engineering (10%)					\$	27,273							
Design Engineering (8%)					\$	21,819							
Right-of-Way					\$								
Total Estimated Cost/Unit					\$	321,826 per sign							
# Unit costs based discussions	with Dektronics Va	riable Messag	ge Si	# Unit costs based discussions with Dektronics Variable Message Signs (206)-898-5381									

Improvement Option: Improved Pullout Locations - 2 Each

Item	Quantity	Units	C	ost/Unit #		Cost
Embankment in Place	8000	C.Y.	\$	7.41	\$	59,280
2. Cr. Agg. Course	3150	C.Y.	\$	17.32	\$	54,558
3. Pl. Mix Bit. Surf Gr. D	248	Ton	\$	75.00	\$	18,600
4. Asphalt Cement	15.2	Ton	\$	430.00	\$	6,536
5. Drainage	1	L.S.	\$	\$ 16,000.00		16,000
6. Signing/Markings	1	L.S.	\$	6,000.00	\$	6,000
7. Fencing	1	L.S.	\$	4,000.00	\$	4,000
Subtotal					\$	164,974
Traffic Control (15%)					\$	24,746
Subtotal					\$	189,720
Mobilization (15%)					\$	28,458
Subtotal					\$	218,178
Contingency (15%)					\$	32,727
Subtotal					\$	250,905
Construction Engineering (10%)					\$	25,090
Design Engineering (10%)					\$	25,090
Right-of-Way					\$	<u>-</u>
Total Estimated Cost					\$	301,086
# Unit costs based on MDT Engli	sh Average Bid	Prices - 2007				

US 93 Corridor Study Cost Summary

	Enhanced Vanpool / Rideshare Programs		Improved Park & Ride Locations Separated Bike / Pedestrian Path		Fixed Route Bus Service			Intersection Improvements: Additional Right Turn Lane	Improved Pede	proved Pedestrian Crossings		Improved Animal Crossings		Improved Pullout Locations		
2007 Estimated Const. Cost	\$	5,000 \$	40,000	\$ 150,000	\$ 1,400,000	\$ 2,200,000	\$ 400,00	0 \$	8,000,000	\$ 450,000	\$ 2,500	\$ 1,505,000	\$ 300,000	2,000,000	\$ 350,000	\$ 300,000
Indirect Costs (@12%)	\$	600 \$	4,800	\$ 18,000	\$ 168,000	\$ 264,000	\$ 48,00	0 \$	960,000	\$ 54,000	\$ 300	\$ 180,600	\$ 36,000	240,000	\$ 42,000	\$ 36,000
Year 2007 Estimate	\$	5,600 \$	44,800	\$ 168,000	\$ 1,568,000	\$ 2,464,000	\$ 448,00	0 \$	8,960,000	\$ 504,000	\$ 2,800	\$ 1,685,600	\$ 336,00	2,240,000	\$ 392,000	\$ 336,000
Inflation at 3% Annually to Year 2012	\$	5,796 \$	46,371	\$ 173,891	\$ 1,622,984	\$ 2,550,403	\$ 463,71	0 \$	9,274,193	\$ 521,673	\$ 2,898	\$ 1,744,707	\$ 347,78	2 \$ 2,318,548	\$ 405,746	\$ 347,782
Indirect Costs (@12%)	\$	696 \$	5,565	\$ 20,867	\$ 194,758	\$ 306,048	\$ 55,64	.5 \$	1,112,903	\$ 62,601	\$ 348	\$ 209,365	\$ 41,73	4 \$ 278,226	\$ 48,690	\$ 41,734
Year 2012 Estimate	\$	6,492 \$	51,936	\$ 194,758	\$ 1,817,742	\$ 2,856,451	\$ 519,35	5 \$	10,387,096	\$ 584,274	\$ 3,246	\$ 1,954,072	\$ 389,510	\$ 2,596,774	\$ 454,436	\$ 389,516
Inflation at 3% Annually to Year 2018 Indirect Costs (@12%) Year 2018 Estimate	\$ \$	6,921 \$ 831 \$ 7,752 \$	55,369 6,644 62,013	\$ 24,916	, , ,	\$ 365,438	\$ 66,44	3 \$	11,073,871 1,328,865 12,402,736	\$ 74,749	\$ 415	\$ 249,993	\$ 49,83	2 \$ 332,216	\$ 58,138	\$ 49,832
Inflation at 3% Annually to Year 2024 Indirect Costs (@12%)	\$	8,264 \$ 992 \$	66,114 7,934	\$ 29,751	\$ 277,678	\$ 436,352	\$ 79,33	\$7 \$	13,222,781 1,586,734	\$ 89,254	\$ 496	\$ 298,504	\$ 59,500	3 \$ 396,683	\$ 69,420	\$ 59,503
Year 2024 Estimate	\$	9,256 \$	74,048	\$ 277,678	\$ 2,591,665	\$ 4,072,617	\$ 740,47	6 \$	14,809,515	\$ 833,035	\$ 4,628	\$ 2,786,040	\$ 555,35	7 \$ 3,702,378	\$ 647,917	\$ 555,357
Inflation at 3% Annually to Year 2030	\$	9,868 \$	78,943	\$ 296,038	\$ 2,763,021	\$ 4,341,890	\$ 789,43	5 \$	15,788,692	\$ 888,114	\$ 4,934	\$ 2,970,248	\$ 592,070	3,947,173	\$ 690,755	\$ 592,076
Indirect Costs (@12%) Year 2030 Estimate	\$ \$	1,184 \$ 11,052 \$	9,473 88,416	,	,	,		Ţ,	1,894,643 17,683,335	,			,		,	